

	L #	Hits	Search Text	DBs	Time Stamp
1	L1	1024	toner\$1 near3 white\$1	USPAT; US-PG PUB	2002/10/18 07:10
2	L2	42	l1 and 430/108.6.ccls.	USPAT; US-PG PUB	2002/10/18 07:33
3	L3	29	aerosil adj1 r972 near8 (bet or (surface adj1 area\$1))	USPAT; US-PG PUB	2002/10/18 08:45
4	L4	2956	(titania or titanium) with (bet or (surface adj1 area\$1))	USPAT; US-PG PUB	2002/10/18 08:46
5	L5	45	l4 and 430/108.6.ccls.	USPAT; US-PG PUB	2002/10/18 11:49
6	L6	0	430/11.35.ccls.	USPAT; US-PG PUB	2002/10/18 11:49
7	L7	212	430/111.35.ccls.	USPAT; US-PG PUB	2002/10/18 11:49
8	L8	29258	fluororesin\$1 or polyvinylidene fluoride or polyvinylidene	USPAT; US-PG PUB	2002/10/18 11:49
9	L9	7892	l8 and conductive	USPAT; US-PG PUB	2002/10/18 11:50
10	L10	54	l9 and l7	USPAT; US-PG PUB	2002/10/18 11:53
11	L11	1	6391506.pn.	USPAT; US-PG PUB	2002/10/18 11:56
12	L12	328	resistivit\$6 same l8	USPAT; US-PG PUB	2002/10/18 12:17
13	L13	1348	430/111.\$3.ccls.	USPAT; US-PG PUB	2002/10/18 11:57
14	L14	15	l12 and l13	USPAT; US-PG PUB	2002/10/18 11:57
15	L15	2636	resist?nce same l8	USPAT; US-PG PUB	2002/10/18 12:18

	L #	Hits	Search Text	DBs	Time Stamp
16	L16	25	I15 and I13	USPAT; US-PG PUB	2002/10/18 12:19
17	L17	293	core with resistance with (ohm\$1 or omega)	USPAT; US-PG PUB	2002/10/18 12:20
18	L18	7	I17 and I13	USPAT; US-PG PUB	2002/10/18 12:20

DERWENT- 2002-328680
ACC-NO:

DERWENT- 200236
WEEK:

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TITLE: Developer for full color images, comprises carrier and toner which contains external additive and inorganic fine particles as internal additive, with specified value of and ratio between volume average particle diameter of toner and carrier

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PATENT-ASSIGNEE: IIZUKA, A TAGUCHI, T YOSHIHARA, K YOSHINO, S FUJI XEROX CO LTD
[XERF]

PRIORITY-DATA: 2000JP-0150098 (May 22, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020022190 A1	February 21, 2002	N/A	013	G03G 009/08G03G 009/08
JP 2001330985 A	November 30, 2001	N/A	013	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE		
US20020022190A	N/A	2001US-0859498	May 18, 2001	N/A 2000JP-0150098	May 22, 2000
JP2001330985A					

INT-CL (IPC): G03G009/08, G03G009/10

ABSTRACTED-PUB-NO: US20020022190A

BASIC-ABSTRACT:

NOVELTY - A developer, comprises a toner and a carrier. The toner contains an external additive and inorganic fine particles as an internal additive. It has a volume average particle diameter (D50v) of 5.0-9.0 micro m. The carrier has a D50v of 15-60 micro m, and the ratio of D50v of the carrier to D50v of the toner is 3.00-7.00.

DETAILED DESCRIPTION - A developer for developing a full color image, which is replenished to a developing device to form a toner image and a part of which is discharged from the developing device to a discharge system. The developer comprises a toner and a carrier. The toner contains an external additive and inorganic fine particles as an internal additive. It has a volume average particle diameter (D50v) of 5.0-9.0 micro m. The carrier has a D50v of 15-60 micro m, and the ratio of D50v of the carrier to D50v of the toner is 3.00-7.00.

An **INDEPENDENT CLAIM** is also included for an image forming method, which comprises:

- (i) forming an electrostatic latent image on an electrostatic latent image holding member;
- (ii) developing the electrostatic latent image with the developer to form a toner image;
- (iii) transferring the toner image onto a transfer medium;
- (iv) fixing the toner image; and
- (v) during the above steps, replenishing the developer to the developing device intermittently or continuously, and discharging part of the developer from the developing device intermittently or continuously.

USE - For developing a full color electrostatic latent image (claimed) in a trickle developing method.

ADVANTAGE - The developer prevents embedding of the external additive in the toner by suppressing impact energy given by stirring the carrier and the toner in a developing device and a replenishment device of the developer, and has a resistance to toner degradation, an excellent transferability, a resistance to carrier contamination and a stable chargeability

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: A89 G08 P84 S06

CPI-CODES: A12-L05C2; G06-C04; G06-G05; G06-G08B; G06-G08C;

EPI-CODES: S06-A04A;